TO ARCHITECTS, BUILDERS, CONTRACTORS, &c.

## HARTLEY'S PATENT ROUGH PLATE GLASS,

1-8th thick, or 2 lbs. to the foot; 3-16ths, or 3 lbs.; and 1-4th, or 4 lbs. to the foot, for

RIDGE AND FURROW ROOFS, GREENHOUSES, RAILWAY STATIONS, ENGINE SHEDS, MILLS, MARKET HALLS, AND PUBLIC BUILDINGS GENERALLY.

It being universally admitted that Glass in Roofs of a permanent character should not be less than one-eighth of an inch thick, weighing two pounds to the foot, Messrs. JAMES HARTLEY and CO. have directed their attention to the manufacture of a description of

ROUGH PLATE GLASS THAT COMBINES SIZE AND STRENGTH WITH ECONOMY OF COST.

The PATENT ROUGH PLATE is manufactured in sizes expressly for Ridge and Furrow Roofs, giving a span of from 8 to 12 feet, at a price not exceeding weight for weight that of common Crown Glass. Not being transparent, blinds are unnecessary, and when used in Greenhouses no scorching occurs; its NONTRANSPARENCY and strength render it eminently suitable for the Glazing of Conservatories and Roofs of all kinds, also Factories, Workshops, &c., for which purposes it is supplied in squares of all sizes, from 8 by 6 inches and upwards.

For further information apply to Messrs. JAMES HARTLEY and CO., Wear Glass Works, Sunderland.

N.B.—The Patent Rough Plate is supplied at a much lower cost than the common Rough Plate.—May 1, 1851.

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## GLASS FOR CHURCHES, CHAPELS, SCHOOLS, &c.

HARTLEY'S PATENT QUARRY GLASS,

Of three thicknesses, in long lengths; an economical substitute for lead lights. The attention of Architects, Builders, and others is particularly requested to this beautiful article; sample of which may be seen at

JOSEPH CHATER AND SON'S, ST. DUNSTAN'S-HILL, TOWER-STREET, LONDON.

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**HARTLEY'S PATENT ROUGH PLATE-GLASS** for Conservatories, Public Buildings, Manufactories, Skylights, &c., 1/8th inch thick. Packed in boxes of 50 feet each.

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|---|---|
| 6 by 4 and 6½ by 4½ .... [illegible] | 7 by 5 and 7½ by 5½ .. 12s. 0d. |
| 8 by 6 and 8½ by 6½ .... [illegible] | 9 by 7 and 10 by 8 .. 13s. 0d. |

N.B.—A reduction on ten boxes. For larger sizes a list of prices will be sent on application.

Supplied, wholesale, retail, and for exportation, by JAMES PHILLIPS and CO., 116, Bishopsgate-street Without. DEPOT FOR HARTLEY'S PATENT QUARRY GLASS.

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**THOMAS MILLINGTON** begs to inform BUILDERS and the Trade that he can supply them with FOREIGN and ENGLISH WINDOW GLASS, Plain and Coloured, of every description. ROUGH PLATE GLASS from ⅛ inch to 1 inch thick. Glass Pantiles, Slates, &c. &c. White Lead, Paints, Colours, Oils, Varnishes, Brushes, &c.; Milled and Sheet Leads, Lead Pipe from ½ inch to 4½ inches bore; Solder, Water-closets, Basins, Plumbers' and Brass Work of every description, and upon the very best terms. Glass Ornament Shades, Milk pans, Propagating and Bee Glasses.—Address, 87, Bishopsgate-street Without. See Advertisement, Saturday, June 28, 1851.

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**SOHO GLASS WAREHOUSE, 26, SOHO SQUARE.**—ALFRED GOSLETT begs to inform Architects, Builders, and the trade generally, that he is prepared to forward contracts for the following descriptions of Glass upon application:—BRITISH PLATE GLASS, of the finest colour and finish; PATENT PLATE GLASS; ORNAMENTAL GLASS, of all descriptions; COLOURED GLASS; ROUGH PLATE GLASS, ⅛, 3-16, ¼, and ½ inch thick; PATENT ROLLED ROUGH PLATE, [illegible] and ½ inch thick; CROWN, SHEET, and HORTICULTURAL GLASS, cut to size and glazed, or in crates, as manufactured; BELGIAN SHEET GLASS, in cases containing 200 feet each (case included), at [illegible] per case.

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**E. and W. H. JACKSON** beg to call the attention of Builders and the Trade to the LOW PRICES of their PATENT PLATE GLASS, BRITISH PLATE, silvered and for glazing, of unrivalled quality and finish; ROUGH PLATE, CROWN, SHEET, COLOURED, and ORNAMENTAL GLASS, in every variety, of the best manufacture, at the lowest terms. Designs and estimates furnished for ornamental windows either for house or church decoration. All applications for estimates and list of prices to be made at their warehouse, 315, OXFORD-STREET.

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**CHEAP ORNAMENTAL GLASS.**—I beg to inform my friends and the public, that I have now completed a new ENGINE, and, owing to the facility with which I can execute orders, I am enabled to reduce my former prices considerably. The prices are now from ONE SHILLING PER FOOT SUP., and borders from SIXPENCE PER FOOT RUN. A large quantity of the cheapest patterns always in stock. Embossing and [illegible] work on the most moderate terms.—CHARLES LONG, No. 1, [illegible], Baker-street, Portman-square.—Cash only.

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**CHEAP GLASS.**—Builders and Others supplied with Sheet Glass cut to any size, at 3d.; 16 oz. ditto [illegible]; [illegible]; Ground, 3½d.; Stained, 7d. in sheets. Shades [illegible] in Crown or Sheet, 8s. 9½d. to 2d.; 3-C Crown in Crates, [illegible]; Belgian Sheet in 200 feet Cases, 40s to 45s. large size.—HICKSON'S, 46, Long-acre. Hartley's Quarry and Rough Sheet.—Terms cash.

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TO BUILDERS, PLUMBERS, &c.

**JAMES MILES'S** cheap ENGLISH and FOREIGN WINDOW-GLASS WAREHOUSE, 18, Church-street, Shoreditch, near the Eastern Counties Railway Terminus. Crates of foreign sheet, various sizes, 6s. 100 feet; crates of sheet, 16 to 18 oz., 2½d. per foot; good crown C C, 20, 10s. per crate; patent plate; Hartley's rough plate; stained, ground, and ornamented glass; crown squares of every size in stock; sheet lead; pipes; patent pan-close; solder and plumbers' brass work of all kinds; white lead, oils, and colours, at low prices; large stock of paperhangings; old lead bought in any quantity, or taken in exchange. Sashes glazed and primed in oil at very low prices, in any quantity.

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**PAPER HANGINGS, by E. T. ARCHER'S** patented Machine, Blocks, Cylinders, and Artistical Labour, at his Manufactory, for all kinds of papers adapted for internal decorations. PANELLED DECORATIONS fitted up on the walls of the extensive Show Rooms, in every known style, and for all purposes, by artists of known merit.

Always on hand a CHOICE and EXTENSIVE SELECTION of FRENCH PAPERS, from the best manufacturers in Paris.

Attached to the paperhanging factory there is the choicest assortment of CABINET FURNITURE in London, of the best cabinet and upholstery goods, of the first fabric. Brussels carpet, [illegible] per yard, floor cloths, the best that can be made, cut to any dimensions, [illegible] per yard; silk and worsted curtains of the finest fabrics, 8 feet wide, [illegible] per yard, at

E. T. ARCHER'S, 451, Oxford-street.

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**PAPERHANGINGS! PAPERHANGINGS! PAPERHANGINGS!**—Builders, Country Dealers, and others will find an immense Stock and an endless variety of all classes of Paperhangings at W. CROSBY'S, 22, Lowther-arcade, Charing-cross. 11,000 pieces, job lots, almost given away. Clearing out for Spring Stock. Patterns sent for approval to town or country. Cheapest house for panel decorations. Terms, cash.

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**PAPERHANGINGS.**—By recent improvements in block and cylinder printing, good satin and bed-room papers are offered to the trade, at very reduced prices, by JEFFREY, ALLEN, and CO., Kent and Essex-yard, 115, Whitechapel.

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**LONDON to DUBLIN** (*viâ* Holyhead) in THIRTEEN HOURS and a HALF.

Three communications daily on week-days; two on Sundays. Sea passage, Four Hours and a Half. First class, 3l.; second, 2l. Return tickets available for a fortnight, first class, 4l. 10s.; second, 3l. Children under twelve half-price.

For full particulars of the [illegible] system between England and Ireland, see Bradshaw's Guide, page 120; Walsh's Irish Guide, page 20; Fisher's Irish Guide, page 2.

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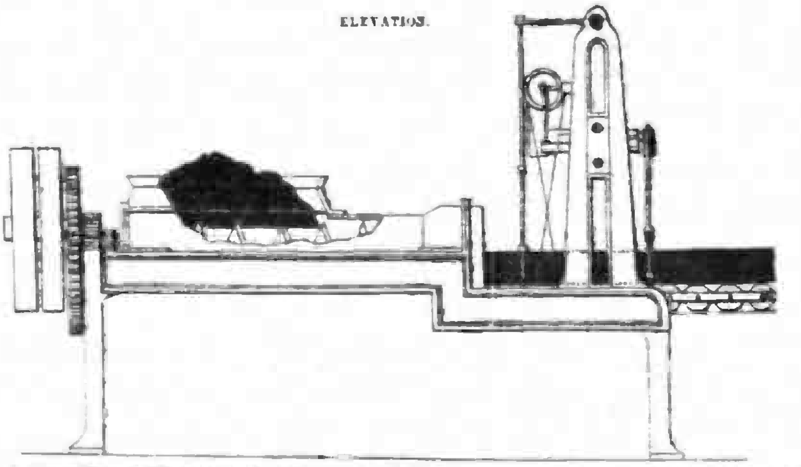
## RANDELL AND SAUNDERS'S PATENT MACHINE,

FOR THE

IMPROVED MANUFACTURE OF BRICKS, TILES, & PIPES.

ELEVATION.



In this machine are contained the two objects so long sought in brick machines—a press which forces the clay through a die without cessation so long as the clay is supplied to the machine, and a perpetual self-acting cutter, which severs the clay the required lengths without interfering with its progress.

The clay, in a rough state, is thrown upon the screws by the person employed to fill the machine; the screws, in revolving, thoroughly pug the clay, and also force it forward into a chamber at the other end of the cylinder in which they revolve; from this chamber the clay is allowed to issue through a die, and it is obvious that the stream of clay must take the form of the opening through which it passes, and this opening can be made of the form required to make bricks, tiles, pipes, and other descriptions of ware.

When it is necessary to give the ends of the bricks a corrugated shape, this can be done by attaching a knife to the cylinder of the cutter; this knife revolves with the cylinder, and is made the shape required for the ends of the bricks, which form it imparts to the bricks in cutting them. This arrangement is adapted for making Messrs. RANDELL and SAUNDERS'S Patent Draining Bricks for sewage purposes, which make a drain of much greater strength than the stoneware or redware pipes, and at far less cost.

The machine is self-acting—the attendants have merely to put in the clay, and remove the bricks, or other ware, which may be produced.

When worked with two-horse power, the machine will produce 1,000 bricks, or 1,800 3-inch pipes, per hour; more power can be applied if desirable, and a larger result obtained.

The screws propel the clay without taking air in with it; thus the ware comes out free from the imperfections which are so often seen in the ware produced by piston pressure; and the loss so generally incurred by waste in burning, from the expansion of the air in the ware, is avoided.

The moderate price of this machine, and the simplicity of its construction, place it within the reach of almost every person in the trade, both as to cost and management. It not only lessens the cost of labour required in the process of brick making, but, as the clay can be used in a much drier state than it can be when moulded by the hand, the time occupied in drying is much less; and, when hollow bricks are made, a material saving is effected in the cost of manufacture and burning. In consequence of the great compression given to the clay in its transit, ware of very superior quality is produced.

For price and further particulars apply to RANDELL and SAUNDERS, Bath.

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TO ARCHITECTS, BUILDERS, AND BRICK-MAKERS.

**PUMPS of Superior CONSTRUCTION,** bored perfectly true by improved machinery, in various plain and ornamental patterns for Conservatories, Squares, Market Places, Roads, Gardens, and for Liquid Manure. BRICK-MAKERS' PUMPS, in Wrought and Cast Iron, HYDRAULIC LIFT PUMPS, and ENGINES for Wells of any depth. SINGLE and DOUBLE PUMPS up to twelve-inch bore, kept for Hire.

BENJ. FOWLER, late of 63, Dorset-street, removed to the new Factory, Whitefriars-street, Fleet-street.

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FARM AND COTTAGE PUMPS.

**PATENT CAST-IRON PUMPS,** for the use of Farms, Cottages, Manure Tanks, and Shallow Wells.

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|---|---|
| Patent Pump .................... | £1 12 0 |
| Patent Pump, with 15 feet of lead pipe attached, and bolts and nuts ready for fixing .................... | 2 9 0 |

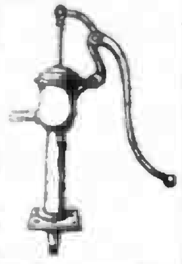
Larger sizes if required.

May be obtained of any Ironmonger or Plumber in Town or Country, or of the Patentees and Manufacturers,

JOHN WARNER and SONS,
8, Crescent, Jewin-street, London.

Every description of Machinery for Raising Water, Fire Engines, &c.

The usual allowance to the Trade.



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**PATENT VULCANIZED INDIA-RUBBER TUBING,** for Gas Fittings, Chemical Purposes, Fire Engines, Manure Pumps, &c.—JAMES LYNE HANCOCK, Sole Manufacturer and Licensee, Goswell-mews, Goswell-road, London, begs to invite the attention of Architects, Builders, Engineers, and the trade generally, to the Vulcanized India-Rubber Tubing, which is now manufactured from 1-8-inch bore and upwards, in lengths from 30 to 100 feet, and of various strengths suitable to the purposes for which it is applied. VULCANIZED HOSE for FIRE ENGINES, LIQUID MANURE, and for conveying HOT WATER to BATHS in DWELLING-HOUSES and BREWERIES, manufactured to resist great pressures of any length and size to order.

*** Testimonials may be had on application at the Manufactory.

N.B. VULCANIZED WASHERS and SHEET RUBBER for Steam and Hot Water Pipes, and Packings for Pistons and Gland-Boxes of Steam Engines, cut any size to order.

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TO BRICKMAKERS AND CONTRACTORS.

**BRICKS.—20,000 Bricks a day by HART'S** PATENT PORTABLE BRICK-MACHINE.—JAMES HART requests attention to the above Machine, equally fitted to insure the performance of the largest contracts, and for the work of the smaller fields; will work any sort of plastic clay, and invariably turn out a first-rate article. May be seen at work daily at the Atlas Works, Borough-road, Southwark. Orders for the ensuing season should not be delayed. HART'S PATENT HOLLOW BRICK and TILE MACHINE, the simplest and strongest that can be made, to be seen at work at the same place; solid and hollow bricks, pipes, and all descriptions of ornamental brick and tile work, 20 feet a-minute of 3-inch pipe by one man. Agents wanted for the sale of the above and other Machines.—Apply, with references, to JAMES HART, Atlas Works, Borough-road, London.

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**LIGHTNING CONDUCTORS.**—R. S. NEWALL and CO., Patentees of the Copper Rope Lightning Conductor, beg to inform the nobility, clergy, &c., that they supply Lightning Conductors, with the point and all staples complete for fixing, at one shilling the foot, whatever the altitude of the building intended to be protected.

R. S. NEWALL and CO.'S Patent Copper Rope Conductor is being used by architects, engineers, and scientific men in all parts of the kingdom.

References are permitted to Mr. Trimen, of the Adelphi; Mr. James Mitchell, of Leicester.—Office and Warehouse, 130, Strand, London. Manufactory, Gateshead-on-Tyne. Warehouse, 24, Queen-street, Glasgow.

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**CHURCH and TURRET BELLS** cast to any weight, and tuned. Ship, plantation, horse, sheep, cup, and clock bells of any size.

MUSICAL HAND BELLS

Tuned to the chromatic scale, with improved clappers, and pegged on a new system, which gives a superior tone and facility for ringing.

Memorial Brasses, Pulpit Lights, and Brackets, &c.

Old Bells recast or taken in exchange.

J. WARNER AND SONS,
BELL FOUNDERS,
ENGINEERS, &c.